



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/658,632  
Source: 1Fwo  
Date Processed by STIC: 2/2/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221  
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office; Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/658,632

DATE: 02/02/2004  
TIME: 09:49:14

Input Set : D:\SBIO-0002 Sequence Listing (10-658,632).txt  
Output Set: N:\CRF4\01292004\J658632.raw

4 <110> APPLICANT: Chenchik, Alex  
 6 <120> TITLE OF INVENTION: Methods for Gene Function Analysis  
 9 <130> FILE REFERENCE: SBIO/0002  
 11 <140> CURRENT APPLICATION NUMBER: 10/658,632  
 12 <141> CURRENT FILING DATE: 2003-09-08  
 14 <160> NUMBER OF SEQ ID NOS: 20  
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 43  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: human  
 23 <220> FEATURE:  
 24 <221> NAME/KEY: promoter  
 25 <222> LOCATION: (1)...(7)  
 27 <221> NAME/KEY: misc RNA  
 28 <222> LOCATION: (8)...(43)  
 29 <223> OTHER INFORMATION: n=a,t,g,c      *no t's allowed in an RNA sequence. Use "u" instead.*  
 W--> 31 <400> 1  
 W--> 32 ggacgagnnn nnnnnnnnnnn nnnnnnnnnn aattcatctta tgt      *pp1-5*  
 34 <210> SEQ ID NO: 2      *Does Not Comply  
Connected Diskette Needed*  
 35 <211> LENGTH: 43  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: human  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: misc RNA      *same error*  
 41 <222> LOCATION: (7)...(43)  
 42 <223> OTHER INFORMATION: n=a,t,g,c  
 44 <400> SEQUENCE: 2  
 W--> 45 cctgctccta gnnnnnnnnnn nnnnnnnnnn nnnngtagat aca      *same*  
 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 59  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: human  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: misc RNA      *same*  
 54 <222> LOCATION: (7)...(53)  
 56 <400> SEQUENCE: 3  
 57 gatcccgatgc atctggatcc accaattcaa gagatggtg gatccagatc atcttttg      59  
 59 <210> SEQ ID NO: 4  
 60 <211> LENGTH: 59  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: human  
 64 <220> FEATURE:

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65 <211> NAME/KEY: misc RNA *same*  
 66 <222> LOCATION: (3)...(59)  
 68 <400> SEQUENCE: 4  
 69 gcctactaga cctagggtgt taagttctct aaccacctag gtctagtaga aaaacttaa 59  
 71 <210> SEQ ID NO: 5  
 72 <211> LENGTH: 75  
 73 <212> TYPE: DNA  
 74 <213> ORGANISM: human  
 76 <220> FEATURE:  
 77 <211> NAME/KEY: misc RNA *same*  
 78 <222> LOCATION: (7)...(69)  
 80 <400> SEQUENCE: 5  
 81 gatccgggtg atctggatct accaaggctt gtttcaaga gaaacaagtc ttgggtggatc 60  
 82 cagatcatact ttttg 75  
 84 <210> SEQ ID NO: 6  
 85 <211> LENGTH: 69  
 86 <212> TYPE: DNA  
 87 <213> ORGANISM: human  
 89 <220> FEATURE:  
 90 <211> NAME/KEY: misc RNA *same*  
 91 <222> LOCATION: (3)...(59)  
 93 <400> SEQUENCE: 6  
 94 gcctactaga cctagatggt tcgaaagttc tctttgttca gaaccactag gtctagtaga 60  
 95 aaaacttaa 69  
 97 <210> SEQ ID NO: 7  
 98 <211> LENGTH: 30  
 99 <212> TYPE: DNA  
 100 <213> ORGANISM: human  
 102 <220> FEATURE:  
 103 <221> NAME/KEY: unsure  
 104 <222> LOCATION: (8)...(21)  
 105 <223> OTHER INFORMATION: n=a,t,g,c  
 107 <400> SEQUENCE: 7  
 W- 108 tggaaaaann nnnnnnnnnn ntttttagag 30  
 110 <210> SEQ ID NO: 8  
 111 <211> LENGTH: 30  
 112 <212> TYPE: DNA  
 113 <213> ORGANISM: human  
 115 <220> FEATURE:  
 116 <221> NAME/KEY: unsure  
 117 <222> LOCATION: (13)...(25)  
 118 <223> OTHER INFORMATION: n=a,t,g,c  
 120 <400> SEQUENCE: 8  
 Q- 121 accctttttt tcnnnnnnnn nnnnnatctc 30  
 123 <210> SEQ ID NO: 9  
 124 <211> LENGTH: 31  
 125 <212> TYPE: DNA  
 126 <213> ORGANISM: human  
 128 <220> FEATURE:

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129 <221> NAME/KEY: misc RNA *same*  
130 <222> LOCATION: (6)...(31) *error as shown on previous page*  
131 <223> OTHER INFORMATION: Viral vector sequence  
133 <400> SEQUENCE: 9  
134 aaaggatgtatggatccac caagacttgt t. 31  
136 <210> SEQ ID NO: 10  
137 <211> LENGTH: 31  
138 <212> TYPE: DNA  
139 <213> ORGANISM: human  
141 <220> FEATURE:  
142 <221> NAME/KEY: misc RNA *same*  
143 <222> LOCATION: (2)...(27) *same*  
144 <223> OTHER INFORMATION: Viral vector sequence  
146 <400> SEQUENCE: 10  
147 ctactagacc taggtgggtc tgaacaaaaa a 31  
149 <210> SEQ ID NO: 11  
150 <211> LENGTH: 59  
151 <212> TYPE: DNA  
152 <213> ORGANISM: human  
154 <220> FEATURE:  
155 <221> NAME/KEY: misc RNA *u*  
156 <222> LOCATION: (17)...(42) *u*  
157 <223> OTHER INFORMATION: n=a,t,g,c  
159 <400> SEQUENCE: 11  
W--> 160 agcagaagac taaaagnnnn nnnnnnnnnnn nnnnnnnnnnn nnttttatgt cttctacga 59  
162 <210> SEQ ID NO: 12  
163 <211> LENGTH: 19  
164 <212> TYPE: DNA  
165 <213> ORGANISM: human  
167 <220> FEATURE:  
168 <221> NAME/KEY: primer\_bind  
169 <222> LOCATION: (11)...(19)  
170 <223> OTHER INFORMATION: Viral vector sequence  
172 <400> SEQUENCE: 12  
173 acgcaggtgt agcagaaga 19  
175 <210> SEQ ID NO: 13  
176 <211> LENGTH: 59  
177 <212> TYPE: DNA  
178 <213> ORGANISM: human  
180 <220> FEATURE:  
181 <221> NAME/KEY: misc RNA *u*  
182 <222> LOCATION: (17)...(42) *u*  
183 <223> OTHER INFORMATION: n=a,t,g,c  
185 <400> SEQUENCE: 13  
W--> 186 agcagaagac taaaagnnnn nnnnnnnnnnn nnnnnnnnnnn nnttttatgt cttctacga 59  
188 <210> SEQ ID NO: 14  
189 <211> LENGTH: 20  
190 <212> TYPE: DNA  
191 <213> ORGANISM: human

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193 <220> FEATURE:  
194 <221> NAME/KEY: primer\_bind  
195 <222> LOCATION: (1)...(11)  
196 <223> OTHER INFORMATION: Viral vector sequence  
198 <400> SEQUENCE: 14  
199 cagaagatgc tcacgacgct 20  
201 <210> SEQ ID NO: 15  
202 <211> LENGTH: 78  
203 <212> TYPE: DNA  
204 <213> ORGANISM: human  
206 <220> FEATURE:  
207 <221> NAME/KEY: misc RNA  
208 <222> LOCATION: (27)...(52) μ  
209 <223> OTHER INFORMATION: n=a,t,g,c  
211 <400> SEQUENCE: 15  
W--> 212 acgcagggtt agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt 60  
213 cttctacgag tgctgcga 78  
215 <210> SEQ ID NO: 16  
216 <211> LENGTH: 78  
217 <212> TYPE: DNA  
218 <213> ORGANISM: human  
220 <220> FEATURE:  
221 <221> NAME/KEY: misc RNA  
222 <222> LOCATION: (27)...(52) μ  
223 <223> OTHER INFORMATION: n=a,t,g,c  
225 <400> SEQUENCE: 16  
W--> 226 tgcgtccaca tcgtttctg attttchnnnn nnnnnnnnnn nnnnnnnnnn nnaaaataca 60  
227 gaagatgctc acgacgct 78  
229 <210> SEQ ID NO: 17  
230 <211> LENGTH: 30  
231 <212> TYPE: DNA  
232 <213> ORGANISM: human  
234 <220> FEATURE:  
235 <221> NAME/KEY: misc RNA  
236 <222> LOCATION: (5)...(30) μ  
237 <223> OTHER INFORMATION: n=a,t,g,c  
239 <400> SEQUENCE: 17  
W--> 240 aaagnnnnnn nnnnnnnnnn nnnnnnnnnn 30  
242 <210> SEQ ID NO: 18  
243 <211> LENGTH: 30  
244 <212> TYPE: DNA  
245 <213> ORGANISM: human  
247 <220> FEATURE:  
248 <221> NAME/KEY: misc RNA  
249 <222> LOCATION: (1)...(26) μ  
250 <223> OTHER INFORMATION: n=a,t,g,c  
252 <400> SEQUENCE: 18  
W--> 253 nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa 30  
255 <210> SEQ ID NO: 19

## RAW SEQUENCE LISTING

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Input Set : D:\SBIO-0002 Sequence Listing (10-658,632).txt  
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256 <211> LENGTH: 44  
257 <212> TYPE: DNA  
258 <213> ORGANISM: human  
260 <220> FEATURE:  
261 <221> NAME/KEY: mRNA *μ*  
262 <222> LOCATION: (9)...(35) *μ*  
263 <223> OTHER INFORMATION: n=a,t,g,c  
265 <400> SEQUENCE: 19

W--> 266 tgggaaaaagn nnnnnnnnnnn nnnnnnnnnnn nnnnnntttt agag 44

268 <210> SEQ ID NO: 20  
269 <211> LENGTH: 44  
270 <212> TYPE: DNA  
271 <213> ORGANISM: human  
273 <220> FEATURE:  
274 <221> NAME/KEY: misc RNA *μ*  
275 <222> LOCATION: (9)...(35) *μ*  
276 <223> OTHER INFORMATION: n=a,t,g,c  
278 <400> SEQUENCE: 20

W--> 279 acccttttch nnnnnnnnnnn nnnnnnnnnnn nnnnnnaaaaaa tctc 44

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/658,632

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Input Set : D:\SBIO-0002 Sequence Listing (10-658,632).txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28  
Seq#:1; N Pos. 29,30  
Seq#:2; N Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31  
Seq#:2; N Pos. 32,33,34  
Seq#:7; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:8; N Pos. 13,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:11; N Pos. 27,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
Seq#:11; N Pos. 37,38,39,40,41,42  
Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
Seq#:13; N Pos. 37,38,39,40,41,42  
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:15; N Pos. 47,48,49,50,51,52  
Seq#:16; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:16; N Pos. 47,48,49,50,51,52  
Seq#:17; N Pos. 6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:17; N Pos. 26,27,28,29,30  
Seq#:18; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:18; N Pos. 24,25,26  
Seq#:19; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
Seq#:19; N Pos. 30,31,32,33,34,35  
Seq#:20; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
Seq#:20; N Pos. 30,31,32,33,34,35